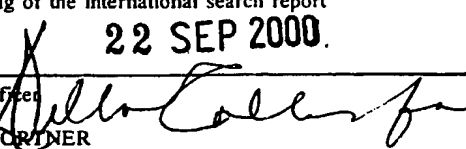


## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US00/15659

| <b>A. CLASSIFICATION OF SUBJECT MATTER</b>   |   |  |
|--|---|--|
| IPC(7) : C07K 1/00, 14/00, 17/00<br>US CL : 530/350<br>According to International Patent Classification (IPC) or to both national classification and IPC |   |  |
| <b>B. FIELDS SEARCHED</b>  |   |  |
| Minimum documentation searched (classification system followed by classification symbols)<br>U.S. : 530/350  |   |  |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched                            |   |  |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)<br>Please See Extra Sheet.  |   |  |
| <b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>  |   |  |
| Category*  | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No.  |
| Y  | TSAY, JT et al, Isolation and characterization of the beta-ketoacyl-acyl carrier protein synthase III gene (fabH) from Escherichia coli K-12, Journal of biological chemistry, 05 April 1992, Vol. 267, No. 10, pages 6807-6814, (abstract only), see entire abstract.  | 1, 6   |
| X  | HEATH, RJ et al, Inhibition of beta-ketoacyl-acyl carrier protein synthase III (FabH) by acyl-acyl carrier protein in Escherichia coli, Journal of Biological Chemistry, 03 May 1996, Vol. 271, No. 18, pages 10996-10000 (abstract only), see entire abstract.   | 12,17  |
| Y  |   | 1,4,6  |
| <input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.         |   |  |
| *<br>*A*<br>*E*<br>*L*<br>*O*<br>*P*   | Special categories of cited documents:<br>document defining the general state of the art which is not considered to be of particular relevance<br>earlier document published on or after the international filing date<br>document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)<br>document referring to an oral disclosure, use, exhibition or other means<br>document published prior to the international filing date but later than the priority date claimed | *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention<br>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone<br>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art<br>*&* document member of the same patent family |
| Date of the actual completion of the international search<br>11 AUGUST 2000  |   | Date of mailing of the international search report<br>22 SEP 2000  |
| Name and mailing address of the ISA/US<br>Commissioner of Patents and Trademarks<br>Box PCT<br>Washington, D.C. 20231<br>Facsimile No. (703) 305-3230    |   | Authorized officer<br><br>GINNY PORTNER<br>Telephone No. (703) 308-0196  |

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US00/15659

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|-----------|--|-----------------------|
| X         | HEATH, RJ et al, Regulation of Fatty Acid elongation and initiation by acyl-acyl carrier protein in Escherichia coli., Journal of Biological Chemistry, 26 January 1996, Vol. 271, No. 4, pages 1833-1836, (abstract only), see entire abstract.<br><br>HAN, LEI, Characterization of b-ketoacyl-acyl carrier protein synthase III from Streptomyces glaucescens and its role in initiation of fatty acid biosynthesis. Journal of Bacteriology, September 1998, Vol. 180, No. 17, pages 4481-4486 (abstract only), see entire abstract. | 12,17                 |
| Y         |  | 1,4,6                 |
| Y         |  | 1,2                   |
| X         |  | 12,17                 |

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US00/15659

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2. ☒ Claims Nos.: 3,5,8-11,13-16,18-27  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:  
  
Please See Extra Sheet.
  
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
  
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US00/15659

### B. FIELDS SEARCHED

Electronic data bases consulted (Name of data base and where practicable terms used):

DIAGLOG, MEDLINE, DISSERTATION ABSTRACTS, EMBASE, BIOSIS, MEDICINE, DIAL INDEX  
search terms: FABH, FABH1, inhibitor?, block?, antagonist?, inactivat?

### BOX I. OBSERVATIONS WHERE CLAIMS WERE FOUND UNSEARCHABLE

2. Where no meaningful search could be carried out, specifically:

Claim 3 has no specific SEQ ID No. Relative start and stop points for the claimed protein were not assigned to the FabH protein of claim 3. The specific amino acid locations are not searchable without context with the entire protein amino acid sequence. Claims 5,8-11,13-16 and 18-27 define and use a protein by specific coordinates that are not searchable due to a suitable computer program to analyse them was not provided or available. Claims 8-10, 13-16 recite a Table II was not disclosed in the description of the invention. Claim 10,14, 16 defines a molecule by a picture of figure 3; the picture was not searchable.